PCT/EP2004/004132

20990PCT GPR54.ST25 SEQUENCE LISTING

<110> INSERM

<120> RECEPTOR AGONIST AND ANTAGONIST USEFUL FOR THE TREATMENT OF GONADOTROPIN RELATED DISEASES

<130> 20990EP

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<170> PatentIn version 3.1

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<212> DNA

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											aac Asn 60					19)2
tac Tyr 65	gtc Val	atc Ile	tgc Cys	cgc Arg	cac His 70	aag Lys	ccg Pro	atg Met	cgg Arg	acc Thr 75	gtg Val	acc Thr	aac Asn	ttc Phe	tac Tyr 80	24	10
atc Ile	gcc Ala	aac Asn	ctg Leu	gcg Ala 85	gcc Ala	acg Thr	gac Asp	gtg Val	acc Thr 90	ttc Phe	ctc Leu	ctg Leu	tgc Cys	tgc Cys 95	gtc Val	28	88
ccc Pro	ttc Phe	acg Thr	gcc Ala 100	ctg Leu	ctg Leu	tac Tyr	ccg Pro	ctg Leu 105	ccc Pro	ggc Gly	tgg Trp	gtg Val	ctg Leu 110	ggc Gly	gac Asp	33	36
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acg Thr	tgt Cys 130	gcc Ala	act Thr	ctg Leu	acc Thr	gcc Ala 135	atg Met	agt Ser	gtg Val	gac Asp	cgc Arg 140	tgg Trp	tac Tyr	gtg Val	acg Thr	43	32
											ccc Pro					48	30
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gtg Val	ctc Leu	gcc Ala	ctg Leu 180	cac His	cgc Arg	ctg Leu	tca Ser	ccc Pro 185	ggg Gly	ccg Pro	cgc Arg	gcc Ala	tac Tyr 190	tgc Cys	agt Ser		76
gag Glu	gcc Ala	ttc Phe 195	ccc Pro	agc Ser	cgc Arg	gcc Ala	ctg Leu 200	gag Glu	cgc Arg	gcc Ala	ttc Phe	gca Ala 205	ctg Leu	tac Tyr	aac Asn	62	24
ctg Leu	ctg Leu 210	gcg Ala	ctg Leu	tac Tyr	ctg Leu	ctg Leu 215	ccg Pro	ctg Leu	ctc Leu	gcc Ala	acc Thr 220	tgc Cys	gcc Ala	tgc Cys	tat Tyr	67	72
											gtg Val					72	20
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Ala Asn Ala Ser Gly Cys Pro Gly Cys Gly Ala Asn Ala Ser Asp Gly 20 25 30

Pro Val Pro Ser Pro Arg Ala Val Asp Ala Trp Leu Val Pro Leu Phe 35 40 45

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Phe Ala Ala Leu Met Leu Leu Gly Leu Val Gly Asn Ser Leu Val Ile 50 55 60

Tyr Val Ile Cys Arg His Lys Pro Met Arg Thr Val Thr Asn Phe Tyr 65 70 75 80

Ile Ala Asn Leu Ala Ala Thr Asp Val Thr Phe Leu Leu Cys Cys Val 85 90 95

Pro Phe Thr Ala Leu Leu Tyr Pro Leu Pro Gly Trp Val Leu Gly Asp 100 105 110

Phe Met Cys Lys Phe Val Asn Tyr Ile Gln Gln Val Ser Val Gln Ala 115 120 125

Thr Cys Ala Thr Leu Thr Ala Met Ser Val Asp Arg Trp Tyr Val Thr 130 135 140

Val Phe Pro Leu Arg Ala Leu His Arg Arg Thr Pro Arg Leu Ala Leu 145 150 155 160

Ala Val Ser Leu Ser Ile Trp Val Gly Ser Ala Ala Val Ser Ala Pro 165 170 175

Val Leu Ala Leu His Arg Leu Ser Pro Gly Pro Arg Ala Tyr Cys Ser 180 185 190

Glu Ala Phe Pro Ser Arg Ala Leu Glu Arg Ala Phe Ala Leu Tyr Asn 195 200 205

Leu Leu Ala Leu Tyr Leu Leu Pro Leu Leu Ala Thr Cys Ala Cys Tyr 210 215 220

Ala Ala Met Leu Arg His Leu Gly Arg Val Ala Val Arg Pro Ala Pro 225 230 235 240

Ala Asp Ser Ala Leu Gln Gly Gln Val Leu Ala Glu Arg Ala Gly Ala 245 250 255

Val Arg Ala Lys Val Ser Arg Leu Val Ala Ala Val Val Leu Leu Phe 260 265 270

Ala Ala Cys Trp Gly Pro Ile Gln Leu Phe Leu Val Leu Gln Ala Leu . 275 280 285

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Gly Pro Ala Gly Ser Trp His Pro Arg Ser Tyr Ala Ala Tyr. Ala Leu 290 295 300

Lys Thr Trp Ala His Cys Met Ser Tyr Ser Asn Ser Ala Leu Asn Pro 305 310 315 320

Leu Leu Tyr Ala Phe Leu Gly Ser His Phe Arg Gln Ala Phe Arg Arg 325 330 335

Val Cys Pro Cys Ala Pro Arg Arg Pro Arg Arg Pro Gly 340 345 350

Pro Ser Asp Pro Ala Ala Pro His Ala Glu Leu Leu Arg Leu Gly Ser 355 360 365

His Pro Ala Pro Ala Arg Ala Gln Lys Pro Gly Ser Ser Gly Leu Ala 370 375 380

Ala Arg Gly Leu Cys Val Leu Gly Glu Asp Asn Ala Pro Leu 385 390 395

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Met His Thr Val Ala Thr Ser Gly Pro Asn Ala Ser Trp Gly Ala Pro 1 5 10 15

Ala Asn'Ala Ser Gly Cys Pro Gly Cys Gly Ala Asn Ala Ser Asp Gly 20 25 30

Pro Val Pro Ser Pro Arg Ala Val Asp Ala Trp Leu Val Pro Leu Phe

Phe Ala Ala Leu Met Leu Leu Gly Leu Val Gly Asn Ser Leu Val Ile 50 55 60

Tyr Val Ile Cys Arg His Lys Pro Met Arg Thr Val Thr Asn Phe Tyr 65 70 75 80

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Ile Ala Asn Leu Ala Ala Thr Asp Val Thr Phe Leu Leu Cys Cys Val 85 90 95

Pro Phe Thr Ala Leu Leu Tyr Pro Leu Pro Gly Trp Val Leu Gly Asp 100 105 110

Phe Met Cys Lys Phe Val Asn Tyr Ile Gln Gln Val Ser Val Gln Ala 115 120 125

Thr Cys Ala Thr Leu Thr Ala Met Ser Val Asp Arg Trp Tyr Val Thr 130 135 140

Val Phe Pro Leu Arg Ala Leu His Arg Arg Thr Pro Arg Leu Ala Leu 145 150 155 160

Ala Val Ser Leu Ser Ile Trp Val Gly Ser Ala Ala Val Ser Ala Pro 165 170 175

Val Leu Ala Leu His Arg Leu Ser Pro Gly Pro Arg Ala Tyr Cys Ser 180 185 190

Glu Ala Phe Pro Ser Arg Ala Leu Glu Arg Ala Phe Ala Leu Tyr Asn 195 200 205

Leu Leu Ala Leu Tyr Leu Leu Pro Leu Leu Ala Thr Cys Ala Cys Tyr 210 215 220

Ala Ala Met Leu Arg His Leu Gly Arg Val Ala Val Arg Pro Ala Pro 225 230 235 240

Ala Asp Ser Ala Leu Gln Gly Gln Val Leu Ala Glu Arg Ala Gly Ala 245 250 255

Val Arg Ala Lys Val Ser Arg Leu Val Ala Ala Val Val Leu Leu Phe 260 265 270

Ala Ala Cys Trp Gly Pro Ile Gln Leu Phe Leu Val Leu Gln Ala Leu 275 280 285

Gly Pro Ala Gly Ser Trp His Pro Arg Ser Tyr Ala Ala Tyr Ala Leu 290 295 300

Lys Thr Trp Ala His Cys Met Ser Tyr Ser Asn Ser Ala Leu Asn Pro 305 310 315 320

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Leu Leu Tyr Ala Phe Leu Gly Ser His Phe Arg Gln Ala Phe Arg Arg 325 330 335

Val Cys Pro Cys Ala Pro Arg Arg Pro Arg Arg Pro Arg Pro Gly 340 345 350

Pro Ser Asp Pro Ala Ala Pro His Ala Glu Leu His Arg Leu Gly Ser 355 360 365

His Pro Ala Pro Ala Arg Ala Gln Lys Pro Gly Ser Ser Gly Leu Ala 370 375 380

Ala Arg Gly Leu Cys Val Leu Gly Glu Asp Asn Ala Pro Leu 385 390 395